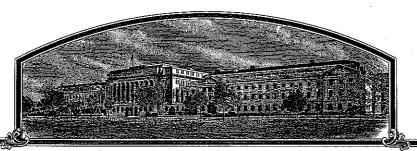
No.



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE: PRESENTS SHAVE COME:

Seminis Hegetable Seeds, Inc.

DICCRS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TIPLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE MIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

LETTUCE

'PS 06515293'

In Testimon Marrest, I have hereunto set my hand and caused the scal of the Plant Inrictor Protection Office to be affixed at the City of Washington, D.C. this fifth day of February, in the year two thousand and eight.

Allest:

Commissioner Plant Variety Protection Office Agricultural Marketing Service Secretar_e Sture

NAME (Please print or type, NAME (Please print or type) Sharen Chaffin CAPACITY OR TITLE CAPACITY OR TITLE DATE

IP Specialist

200400246

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

ITEM

- 18a. Give:
- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date,
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/lsg/seed.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

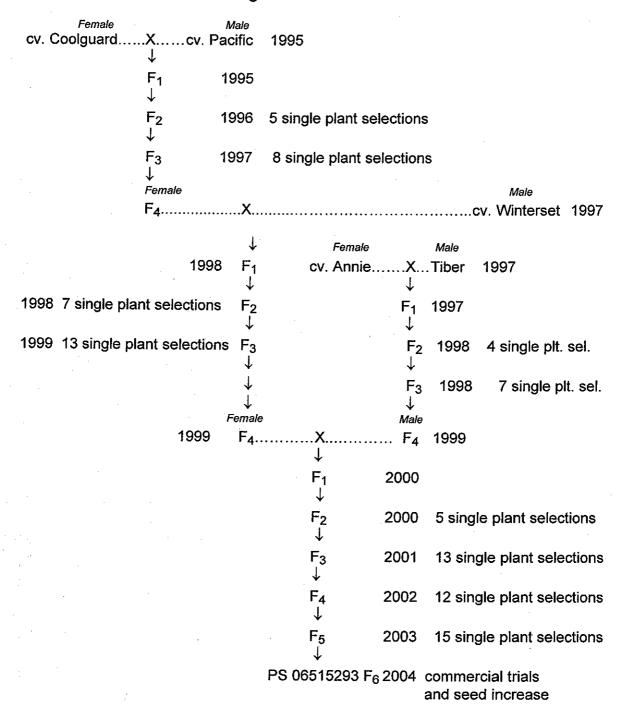
The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (02-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of ST-470, which are obsolete.

Exhibit A. Origin and Breeding History of Lettuce PS 06515293

Pedigree of PS 06515293



PS 06515293 originated in 1995 with the cross cv. Coolguard by cv. Pacific. An F_4 selection from this cross was then crossed to cv. Winterset in 1997. An F_4 selection from that cross was then crossed to an F_4 selection from the cross cv. Annie by cv. Tiber in 1999. Single plant selections were then made in subsequent years in the areas of intended commercialization. By F_5 a group of 15 plants were judged uniform and bulked for trialing and seed increase. An F_6 mass was trialed during the winter/spring of 2004 and a seed increase will be produced in the San Joaquin Valley this year.

3

The breeding work was carried out by Dr. William Waycott at the Seminis Vegetable Seed's Research Station at Arroyo Grande, California. Replicated field trials were conducted in production areas throughout the Desert Southwest of North America during winter/spring 2004.

The breeding method employed was pedigree selection, using both single plant selection and mass selection practices. The selection criteria for PS 06515293 were to establish a cultivar with increased uniformity, improved heading ability, coupled with partial resistance to the lettuce bigvein virus, when compared to the most similar variety, cv. Red Coach 74.

In trials of PS 06515293 the last three years covering generations F_6 to F_8 , we have seen neither genetic variants nor off-types in more than 3,500 plants, indicating that this variety is genetically uniform and stable.

Exhibit B. Novelty Statement of Lettuce PS 06515293

PS 06515293 is described as a vigorous crisphead lettuce cultivar adapted to the Desert Southwest area of North America. Its optimum sowing period is from 1 to 30 November in western Arizona and Southern California. The optimum sowing period for the San Joaquin Valley of California is still being determined. PS 06515293 was selected for improved uniformity and performance, coupled with partial resistance to the lettuce bigvein virus, compared to the currently commercial cultivars grown during these production periods.

Phenotypically, PS 06515293 is distinct from its most similar variety, cv. Red Coach 74 in plant size, head size, and head weight.

In field tests in 2004, PS 06515293 was slightly smaller in size (plant diameter: 45.0 cm vs. 50.7 cm and head diameter: 16.3 cm vs. 17.5 cm) and lighter in weight (1016 g vs. 1108 g) than cv. Red Coach 74, yet had a more appealing appearance (smoother bottom appearance with less pronounced ribs, as measured by rib thickness) (10 mm vs. 18 mm), and a much improved uniformity of heading (Table 1). It also exhibited partial resistance to the lettuce bigvein virus (2.25 of 20 plants with symptoms vs. 18.5 of 20).

In replicated field trials, PS 06515293 consistently exhibited more plants with rounder, firmer heads, while heads of cv. Red Coach 74 exhibited less uniformity of heading with several plants exhibiting soft or misshapen heads. PS 06515293 consistently revealed less symptoms of the lettuce bigvein virus while most of the heads of cv. Red Coach 74 showed the symptoms. Symptoms of the lettuce bigvein virus include a lack of tight head formation, a more erect growth habit of the cap leaves, and an increase in width of the veins so that the color of the cap leaves is changed due to the pronounced, larger, and wider veins. Head formation is normally delayed by the presence of the virus, causing the plant to remain open headed. The presence of symptoms reduces the commercial value of the product due not only to poor head formation, but also to the unsightly outer leaves that are thicker and rougher looking, with larger and wider veins. When severe, the virus can be detected on the inner leaves as well, creating an unsightly product then chopped for salad.

The data presented here are statistically different at the 95% confidence level, exhibiting a range of means for plant diameter from 44.72 to 45.14 for PS 06515293 and from 50.35 to 50.95 for cv. Red Coach 74, of means for head diameter from 16.05 to 16.45 for PS 06515293 and from 17.24 to 17.71 for cv. Red Coach 74, and of means for head weight from 1014.39 to 1017.61 for PS 06515293 and from 1106.01 to 1109.49 for cv. Red Coach 74, using the 0.95 probability of generating confidence intervals (CI) that contains the means.

Table 1. Evaluation of PS 06515293 and the most similar cultivar, cv. Red Coach 74, for several important characters.

			Bottom				Presence of
Trial No	Cultivar	Rep No.		Plant Diam. ^b	Head Diam. ^c	Head Weight ^d	Lettuce bigvein Virus symptoms
Trial 1: Evaluated	PS 06515293:	Rep. 1 Rep. 2	9±0.3 10±0.4	44.7±1.0 45.5±0.9	16.2±1.1 16.5±1.0	984±7.5 1032±7.1	3 of 20 with symptoms 2 of 20 with symptoms
Yuma, AZ		Average: 10±0.4	10±0.4	45.1±1.0	16.4±1.0	1008±7.3	2.5 of 20 with symptoms
	cv. Red Coach 74: Rep. 1 Rep. 2		17±0.4 16±0.5	50.7±1.3 51.6±1.2	17.3±1.1 17.2±1.3	1122±7.7 1101±7.9	20 of 20 with symptoms 17 of 20 with symptoms
		Average: 17±0.5	17±0.5	51.2±1.3	17.3±1.2	1112±7.8	19 of 20 with symptoms
Trial 2: Evaluated	PS 06515293:	Rep. 1 Rep. 2	12±0.2 10±0.2	42.1±0.8 44.7±0.7	14.4±0.8 14.4±0.9	954±6.8 998±7.0	4 of 20 with symptoms 4 of 20 with symptoms
Bard, CA		Average: 11±0.2	11±0.2	43.4±0.8	14.4±0.9	976±6.9	4 of 20 with symptoms
	cv. Red Coach 74: Rep. 1 Rep. 2	;	17±0.4 16±0.3	47.3±1.1 49.0±1.0	17.5±0.9 18.8±0.7	1034±7.4 1022±7.5	17 of 20 with symptoms 20 of 20 with symptoms
		Average: 17±0.4	17±0.4	48.2±1.1	18.2±0.8	1028±7.5	19 of 20 with symptoms
Range of va	Range of variation among means of statistically PS 06515293	ns of statis		r significant differences at the 95% lev to 10.31 44.06 to 44.44 15.16 to 15.59	s at the 95% leve 15.16 to 15.59	990.40 to 993.60	significant differences at the 95% level using the confidence interval [CI = mean ± (SDXSE)]: to 10.31 44.06 to 44.44 15.16 to 15.59 990.40 to 993.60 3.0 to 3.5

16.41 to 16.59 49.39 to 49.90 17.48 to 17.92 1068.30 to 1071.70 ^a Mean rib thickness measured 50 cm from the point of attachment to the stem using two sowing dates of cv. Red Coach 74

20 plants per replication in mm ± standard deviation.

3.0 to 3.5 18.3 to 18.7

 $^{
m b}$ Mean plant diameter using two sowing dates of 20 plants per replication in cm \pm standard deviation.

 $^{\circ}$ Mean head diameter using two sowing dates of 20 plants per replication in cm \pm standard deviation.

 $^{\rm d}$ Mean head weight using two sowing dates of 20 plants per replication in grams \pm standard deviation. $^{\rm e}$ Presence of the lettuce bigvein virus symptoms using two replications of 20 plants each.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is estimated to average 2.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, or marital or family status, parental status, or protocted genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braile, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

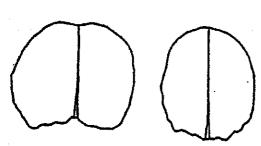
U. S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705 EXHIBIT C (Lettuce)

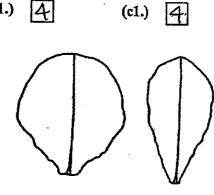
OBJECTIVE DESCRIPTION OF VAR	ETY
LETTUCE (Lactuca sativa L.)	

	No. of the second second second		- Canonica :						
NAIST CONTRACTOR OF THE	•					FOR	OFFICIAL USI	ONLY	
	Vegetable Seeds, Inc).	<u> </u>		PVPO N	JME)RA	0100	2 L	6
the state of the s	mino del Sol					<u> </u>	UTVV	160 %	PER 1
Oxnard,	CA 93030-7967	4	į		VARIET	Y NAME P	3 06519	5293	ian?
			:	<u>. </u>	EXPERI	MENTAL DI	ESIGNATION S	UR5	1293
Place the appropriate not 9 or less. Measured to be used to determine pl	umber that describes the varietal char data should be the mean of an appropant ant colors.	racter in the boxes priate number (at	s below. Place a ze least 20) of well sp	ro in the first bo aced plants. Roy	x (eg. 0 9 yal Horticultur	g or o	g) when number or any recognize	er is either 9 d color stan	9 or less dard may
The location of the test area is	"ARIZONA CAL	LIFORN	Color S	stem Used:	กน 🗛	Hos	2T. 50		
SPECIFIC VARIET	TES USED FOR COMPARIS	ON AS CHEC	K VARIETIE	IN THIS À	PLICATIO)N: Use	standard regio		c varieties
which are adapted to	your area. One of the compa	arison varietie	must be the m	ost similar va	riety used i	n Exhib	it B.		
Application Variety	(a1.) SUR 520	13	Most Si	milar Variety	(c1.)	REI	S COA	CH -	14
					\~~ <i>'</i>			 -	
Standard Regional C	Theck Variety (c2.) \ \A	HUOUAF	CD_	· .					
1. PLANT TYPE:	(See list of suggested check variet	ies page 4.)							
	y sugarran sitems the see	F-0+ 'Y		•					
	01= Cutting/Leaf 04=	Cos or Romai	ne 07= S:	linas Group		10= La	tin	•	4.
	02=Butterhead 05=	Great Lakes C	roup 08=E	istern (Ithaca) Group		THER (Specify	y below):	•
	03= Bibb 06=	Vanguard Gro	up 09= Si	em		· · · · · ·			
		(a1.)	6	(c1.)	56	(c2.)	06	•	
2. SEED:						· · · · · · · · · · · · · · · · · · ·			
		-							
(a1.)		(a1.) 2		ORMANCY	(a1.)		HEAT DO		Y
(c1.)	1= White (Silver Grey) 2= Black (Grey Brown)	(d) 🔼	1= Light R	-	(c1.)		1= Suscepti		
(d.)	3= Brown (Amber)	(c1.) 2	z= Light N	ot Required	(c1.)	Ш	2= Not Susc	epuote	
(c2.)		(c2.)			(c2.)	П			
نت-تا	•	LU				لنا			
3. COTVIEDON	O FOIRTH I PAR CTACT	Fa kiring v	do =1: *		a state of the		70 3		ımda-
OCTARBBOUND	O FOURTH LEAF STAG	optimal con		apn or photocop	y or the fourth	i leat from	ı ∠u day old seedi	nng grown i	unde T
SHAPE OF	COTYLEDONS: 1=B1	road 2= In	termediate 3=	Spatulate					
	•	(a1.)	(0	1.) 2	•	(c2.)	2	М	•

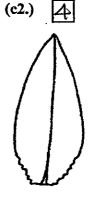
Cotyledon to Fourth Leaf Stage (Continued)

SHAPE OF FOURTH LEAF:





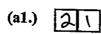






6,

LENGTH/WIDTH INDEX OF FOURTH LEAF: L/W x 10



(a1.)

(c1.)

(c2.)

5.

APICAL MARGIN:

1.

1= Entire 2= Crenate/Gnawed

4= Moderately Dentate 5= Coarsely Dentate

7= Lobed

8= OTHER (Specify below):

3= Finely Dentate

6= Incised

3.

(c1.) (c2.)

BASAL MARGIN:

(Use the options for Apical Margin above)

(a1.)

(a1.)

(c1.)

(c2.)

UNDULATION:

i=Flat

2= Slight

3= Medium

4= Marked

(a1.)

(c1.)

(c2.)

GREEN COLOR:

1=Yellow Green 2= Light green

3= Medium Green 4= Dark Green

M-PAY-VUSA

5= Blue Green 6= Silver Green

7= Grey Green

82 NUL

(c2.)

ANTHOCYANIN:

DISTRIBUTION:

1=Absent 2= Margin Only

3=Spotted 4= Throughout

5= OTHER (Specify below):

(a1.)

(c1.)

CONCENTRATION:

1= Light

2= Moderate

3= Intense

(a1.)

(c1.)

(c2.)

•	Cotyledon to Fourth Lea	af Stage (Continued)				 		Exhibit C (Lettuce) Page 3 of 8
	ROLLING:	I= Absent		2= Present				
			(a1.)		(c1.)		(c2.)	
	CUPPING:	1= Uncupped		2= Slight		3== Mar	kedly	
		,	(a1.)		(c1.)		(c2.)	
	REFLEXING:	1= None	·	2≐ Apical Mar	gin	3= Late	ral Marg	ins
			(a1.)		(c1.)	1	(c2.)	
,	MATURE LEAVES (Obs	erve Harvest-Mature Outer	Leaves)		lor photo of a	harvest-mature	leaf which	accurately shows color and margin
	MARGIN:			characteristics.		-		
	INCISION DEPTH: (deepest penetration of the margin)	1=Absent/Shallov 3= Deep (Great L	v (Dark akes 65	Green Boston) (9)	2=	Moderate (V	anguard)	
•			(a1.)		(c1.)	1	(c2.)	
	INDENTATION: (finest divisions of the margin)	1= Entire (Dark C 2= Shallowly Den 3= Deeply Dentat	itate (G	reat Lakes 65)		Crenate (Van OTHER (Spe		
			(a1.)	4	(c1.)	4	(c2.)	4
	UNDULATIONS OF APICAL MARGIN:	THE 1= Absent/ SI 3= Strong (G	light (D reat Lai	ark Green Bostor kes 659)	ı) 2=	Moderate (V	anguard)	,
			(a1.)	2	(c1.)	2	(c2.)	2
	GREEN COLOR:	1=Very Light 2= Light gree		•	dium Gree rk Green (n (Great Lak Vanguard)		5= Very Dark Green HER (Specify):
		· · · · · · · · · · · · · · · · · · ·	(a1.)	A	(c1.)	4	(c2.)	
	ANTHOCYANIN:			i.s	·	·		
	DISTRIBUTION:	1=Absent 2= Margin Only (l	Big Bos	3= Spotted ston) 4= Through	(Calif. Cro	eam Butter) Head)	5= OT	HER (Specify below):
		,	(a1.)		(c1.)	U	(c2.)	
	CONCENTRATION	: 1= Light (Iceberg	······································	2= Moderate (P	rize Head)	3= Inte	nse (Rub	y)
-			(a1.)		(c1.)		(c2.)	

4. Mature Leaves (Continued)			•				EXHIBIT.	7 - (1 - sunce) Lage 4 UL y
SIZE:	1= Small		2= Medium	-	3= Lar	ge		
		(a1.)	3	(c1.)	3	(c2.)	3	
GLOSSINESS:	1= Dull (Vangu	ard)	2= Moderate (S	Salinas)	3= Glo	ssy (Gre	at Lakes)	
		(a1.)	1	(c1.)	1	(c2.)		
BLISTERING;	1= Absent/Sligh (Salinas)	t	2=Moderate (Vanguard)		3= Stro (Prize		· · · · · · · · · · · · · · · · · · ·	
		(a1.)	2	(c1.)	2	(c2.)	2	
LEAF THICKNESS:	1= Thin		2= Intermediate	;	3= Thi	ck		
		(a1.)	3	(c1.)	3	(c2.)	3	
TRICHOMES:	1= Absent (Smoo	oth)	2= Present (Spir	ny)				
		(a1.)		(c1.)		(c2.)		
. PLANT				· · · · · · · · · · · · · · · · · · ·				
SPREAD OF FRAME LEA		1.) 🛭	5cm	(c1.)	5 1 cm	ı	(c2.)	47cm
HEAD DIAMETER: (mark	et trimmed with sin	igle cap	leaf)					
\$.	(a1) <u>[</u>	6cm	(c1.)	1 7 cn	1	(c2.)	1 8 cm
HEAD SHAPE:	1= Flattened 2= Slightly Flatte	ened	3= Spherical 4= Elongate	·		-Heading		
		(a1.)	3	(c1.)	3	(c2.)	3	
HEAD SIZE CLASS:	1= Small		2= Medium	- , , , . ·	3= Larg	ge		
		(a1.)	3 8Z NOT	(ci()	3	(c2.)	3	
HEAD PER CARTON:					<u></u>			
		(a1.)	24	√ (1S) 	.) 24		(c2.)	24
HEAD WEIGHT:								
	(a1.)		16g (c1	L) [1118	g	(c2.)	1032g
HEAD FIRMNESS:	1=Loose		2= Moderate		3= Firm			4= Very Firm
		(a1.)	4	(c1.)	4	(c2.)	4	want

6.	BUTT				· · · · · · · · · · · · · · · · · · ·	·	Exhibit ((Lettuce) Page 5 of 8
υ.	POLI		-					
٠	SHAPE:	1= Slightly Concave		2= Flat		3= Rounded		•
	•		(a1.)	3	(c1.) Z	(c2.)	3	• :
	MIDRIB:	1= Flattened (Salinas	s) ·	2= Moderately F	Raised	3= Prominently	Raised (G	reat Lakes 659)
			(a1.)	a	(c1.)	(c2.)	2	
7.	CORE						·	
	DIAMETER AT BASE	OF HEAD:						•
			(a1.)	32 mm	(c1.)	35mm	(c2.)	33mm
	RATIO OF HEAD DIA	METER/CORE DIAI	METER					
			(a1.)	50	(c1.)	49	(c2.)	55
•	CORE HEIGHT FROM	BASE OF HEAD TO) APEX	<u> </u>				
			(a1.)	4-8mm	(c1.)	42mm	(c2.)	46mm
8.	BOLTING (Give First Wate	- Derey OC A Pass	17 Z 1310	TP. Pinkylin D				A
	DODIZETO (ONET HA PARE	DueASTITIETE	<u>VEV</u>		ie is the date se		ie moiswie	to germinate. This can and
	NUMBER OF DAYS FI	ROM FIRST WATER	DATE	TO SEED STAL	K EMERG	ENCE (summer c	onditions);
			(a1.)	54	(c1.)	52	(c2.)	64
	BOLTING CLASS:	1= Very Slow 2= Slow		3= Medium 4= Rapid		5= Very Rapid		
, N			(a1.)	3	(c1.)	(c2.)	3	
٠.	HEIGHT OF MATURE	SEED STALK:						
			(a1.)	127cm	ı (c1.)	125 cz	n (c2.)	130 cm
	SPREAD OF BOLTER	PLANT: (at widest po	oint)					
			(a1.)	62cm	(c1.)	68cm	(c2.)	6 Z cm
	BOLTER LEAVES:	1= Straight		2= Curved		·		
			(a1.)		(c1.)	(c2.)	j	
	MARGIN:	1= Entire	(a1.)	2= Dentate	(c1.)	(c2.)	[৯]	·
			•	ب			_ <u>~~</u>	•

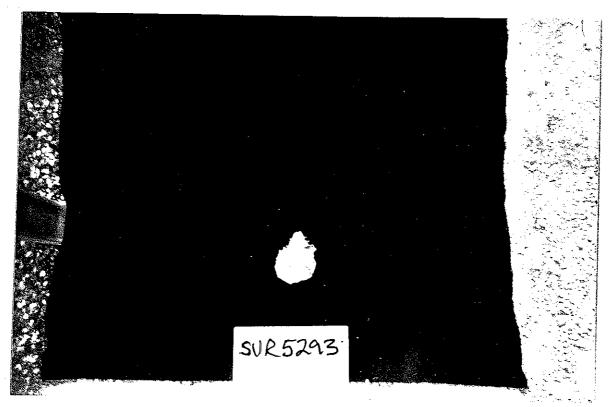
8.	Bolting	g (Continu	ed)			•				····					
	COLO	R:				1=	= Light Gr	een	2=	= Mediu	ım Greei	1		3= Da	rk Green
						(a1.)	团		(c1.)	ব		(c2.)	3	2 24	IN OLOUM
	ROT TO	ER HABI	r.		<u> </u>		لكيا			ابدا		()	لحا		
		ERMINAL		TO COURT	·cms		,								· · · · · · · · · · · · · · · · · · ·
	11;	SECTABLI (PE)	TILETO	CESCEN	CE:	(-1 X	1= Abs	ent		,	2= Prese		P*********		
						(a1.)	2		(c1.)	2		(c2.)	2		
	LA	TERAL S	HOOTS	· · · · · · · · · · · · · · · · · · ·	**************		l= Abs	ent			2= Prese	nt	**********	**************	9940400144900449402 P444m4444
						(a1.)	1		(c1.)	2		(c2.)	[2]		
	BA	SAL SID	E SHOO	rs:	***********	4442>>4==44.54.44	1= Abs	·····	***********	لسكا				••••••	******************************
						(a1.)	I~ Abs	ettt	(o1)	· ·	2= Prese		<u> </u>		
									(c1.)	Ш		(c2.)			
9.	MATU		(earliness oj NOTE: (harvest-me Complete th	sture head j	formation) or at least one	Season	***************************************							
							5 5043011,								•
	SEAS	Ю	APPLIC	ATION V	RIETY	MOST S	IMILAR V	ARIETY	STA	NDARD	REGION	AL CHE	ск		
				io, of days ¹			no. of days ¹			v	'ARIETY o. of days ¹		.		
	Sprin	g										T		51.4	
	Sump	ner										_			
	Fall					·						- 			
	Wint	ст		8	4		8	8			8	-	7		
													,		
	Give pla	anting date	(s) and lo	cation(s):				-				•			
	Spring:			· · · · · · · · · · · · · · · · · · ·	· .		 .			·					
	Summer	r:							-						
	Fall:				-	·,									
	Winter:		4 1/2	V V3	. 11	Jourc	2	40		Λ 2					
					7,	OUD C	<u></u>	-70	MYA,	17				-	
	1. First	t Water Date	o Harvest												
ίο.		TATION:									-			4	
	PRI	IMARY R	EGIONS	OF AD	APTATI	ON (tested :	and proven	idapted):	(0= Ng	t, Tested	đ	1= Not	Adapte	d	2= Adapted)
<u>a</u>	Sou	imwesi (C)	and/or A	Z desert	0	·Wo	est Coast	OC N	ın M	Ja		Northe	-		• ,
0	Nor	th-central			0	So	utheast					OTHE	R (Spec	ify):	
						-	- UHAH	-34V		N					
	SEA	ASON:							D (I						
	2	Spring	(Area	ARIZ	ANCE	CALI	FORMA	\	Fall	(Area	1012	ZraniA	CAI	JFDRYIA
	1	Summer	(Area	ARIZ	ONA.	CALI	ORNIA		Winter					ALL	
٠								الم	W Inter	Ç	nu A	<u>u.c.</u> ,	10117	<u> </u>	014001
	 1														•
	0	GREENE	OUSE:	0=	Not Tes	ted		Not Adap	ted		4= *=++84+65+4+	2= Ada	pted		******************************
	1	SOIL TY	PR-		Mineral	***************			****************	·	******		-	*************	**********
			a 40,	1=	- ivimeral		2= (Organic			;	3= Bot	ь		
e.T	470 1 (02 (07) 4													

200400246

11	. VIRAL DISEASES 1= Immune 3= Resistant 5= Mod	lerately Resis	tant/Mode	erately Susceptible 7=	= Succeptible	0= Hichl	y Susceptible	
,	Big Vein	(a1.)	日	(c1.)	TT	(c2.)	[7]	
	Lettuce Mosaic	(a1.)	H	(c1.)	1-4	(c2.)		
	Cucumber Mosaic	(a1.)	H	(c1.)		(c2.)	H	
	Tomato Bushy Stunt, cause of dieback	(a1.)	 	(c1.)		(c2.)		
	Turnip Mosaic	(a1.)		(c1.)	H	(c2.)		
	Beet Western Yellows	(a1.)		(c1.)	H	(c2.)	H	
	Lettuce Infectious Yellows	(a1.)		(c1.)		(c2.)		
· .	OTHER (Specify):	(a1.)	Ħ	(c1.)		(c2.)		•
12	FUNGAL/BACTERIAL DISEASES							
12,	1=Immune 3= Resistant 5= Mod	lerately Resis	tant/Mode	rately Susceptible 7=	Susceptible	9= High	ly Susceptible	:
	Corky Root Rot	(a1.)		(c1.)		(c2.)		
	(Races:)			,			<u> </u>	
	Downy Mildew	(a1.)		(c1.)		(c2.)		
	(Races:)				· •		•	the state of the
	Powdery Mildew	(a1.)		(c1.)		(c2.)	<u> </u>	
1	Sclerotinia Drop	(a1.)		(c1.)		(c2.)		
	Bacterial Soft Rot (Pseudomonas spp. and others)	(a1.)		(c1.)		(c2.)		
,	Botrytis (Grey Mold)	(a1.)		(c1.)		(c2.)		
	Verticillium Wilt	(a1.)		(c1.)		(c2.)		•
•	Bacterial Leaf Spot	(a1.)	Н	(c1.)	H	(c2.)		e**
	Anthracnose	(a1.)		(c1.)		(c2.	П	
,	OTHER (Specify):	(a1.)	Ħ	(c1.)		(c2.)		
13.	INSECTS 1= Immune 3= Resistant 5= Mod	erately Resist	iant/Mode	rately Susceptible 7=	Cuccentible	0= High	ly Susceptible	
	Cabbage Loopers	(a1.)		(c1.)	Jascepable	(c2.)	ly busception	•
	Root Aphids	(a1.)	H	(c1.)	H	(c2.)	H	
	Green Peach Aphid	(a1.)		(c1.)		(c2.)		ing a mag Ang sa
	Lettuce Aphid	(a1.)		(c1.)	H	(c2.)	H	
٠	Pea Leafminer	(a1.)		(c1.)		(c2.)		* ** **
	OTHER (Specify):	(a1.)	H	(c1.)		(c2.)		
14.	PHYSIOLOGICAL STRESSES 1= Immune 3= Resistant 5= Mode	erately Recict	ant/Mode	rately Susceptible 7=	Cussantible		ly Susceptible	
•	Tipburn	(a1.)	5	(c1.)		(c2.)		, , , , , , , , ,
* . -	Heat	(a1.)	*******	(c1.)	5	(c2.)		
	Drought	(a1.)	4	(c1.)	1	(c2.)	2	
	Cold	(a1.)	12	(c1.)	5	(c2.)	5	
	Salt	(a1.)	5	(c1.)	H	(c2.)	124	**
	Brown Rib (Rib Discoloration, Rib Blight)	(a1.)		(c1.)		(c2.)		
	OTHER (Specify):	(a1.)		(a1.)		(62.)	一	
	(~F) }•	(41.)	1 1	(c1.)	1 1	(c2.)	1 .	

200400246

15.	POSTHARVEST STRESS 1= Immune 3= Resistant 5=	Moderately Resist	ant/Moderate	ly Susceptible 7=	Suscentible	9= Highly Su	scentible
	Pink Rib	(a1.)	П	(c1.)		(c2.)	
	Russet Spotting	(a1.)		(c1.)		(c2.)	
	Rusty Brown Discoloration	(a1.)	H	(c1.)		(c2.)	
	Internal Rib Necrosis (Blackheart, Grey Rib, Grey Streak)	(91)		(c1.)		(c2.)	
	Brown Stain	(a1.)		(c1.)		(c2.)	
16.	BIOCHEMICAL OR ELECTROPH	ORETIC MARK	ERS				
				•			
•	•				•		
						·	
17	COMMENTS						
-,,	CONTINUENTE						
			4 4	· e		•	
		•					
¥*	•						
							•
		Sugg	ested Check	Varieties			
1	Cutting/Leaf TYPE			W-11. 1.G	CHECK	VARIETY	
2	Butterhead Bibb	e e		Waldmann's Gree Oark Green Bosto	n On		
4 5	Cos or Romaine Great Lakes Group	-]	Bibb arris Island	700		
4 5 6 7	Vanguard Group Salinas Group		3	Great Lakes 659- Janguard	/00		• .
8	Eastern Group Stem		3	Salinas thaca			
10	Latin	/ /	3 (W) 82	Celtuce Little Gem			
			REFEREN	TEC			
Bow Agr	ring, J.D.C., 1969. "The Identificatio icultural Botany 11:499-520. National	n of Varieties of I Institute of Agric		goldelle	Journal of the	National Institu	ute of
	is, R.M., K.V. Subbarao, R.N. Raid, a					S Proce St Paul	IMINT
Mic to m	helmore, R. W., J. M. Norwood, D. S. atch resistance factors 3, 4, 5, 6, 8, 9, 1	Ingram, I. R. Cru 10 and 11 in lettu	te and P. Nice (<i>Lactuca</i> s	holson. 1984. Ti	he inheritance	of virulence in <i>l</i> 177.	Bremia lactucae
Nor (Do	wood, J. M., R. W. Michelmore, I. R. (wny mildew) to match R-factors 1, 2, 4	Crute and D. S. In , 6 and 11 in lettu	ngram. 1983. ice (<i>Lactuca</i> :	"The inheritance ativa)". Plant P	e of specific vi	rulence of <i>Brem</i> 6-177.	ia lactucae
Rod	enburg, C.M., et al., 1960. "Varieties o lbouwgewassen (IVT), Wageningen, N	of Tattman Am Tod	ernational M	onograph," Ins	tituut voor de	Verdeling van	
Ryd	er, E.J., 1999. "Lettuce, Endive and C	hicory". CABI Pu	ıblications, V	Vallingford, UK			



Fourth leaf from 20-day old seedlings, SVR 5293



Harvest -mature leaf, SVR 5293

REPRODUCE LOCALLY. Include form number and edition date on al	Il reproductions. F	FORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE EXHIBIT E	Application is required in order to det certificate is to be issued (7 U.S.C. 2 confidential until the certificate is issued.)	421). The information is held
STATEMENT OF THE BASIS OF OWNERSHIP	Confidential until the certificate is issu	ieu (7 0.3.C. 2426).
NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME PER LET
• •	OR EXPERIMENTAL NUMBER	LAN 9/22
Seminis Vegetable Seeds, Inc.	PS 06515293	
ADDDECC O	To TELEBUIONE	. + 0 00 0.10
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
2700 Camino del Sol Oxnard, CA 93030-7967	(805) 647-1572	(805) 918-2545
	7. PVPO NUMBER	
	2004	00246
. Does the applicant own all rights to the variety? Mark an "X" in the	e appropriate block. If no, please expla	ain. YES NO
. Is the applicant (individual or company) a U.S. national or a U.S. b	pased company? If no, give name of co	ountry. YES NO 9/2
D. Is the applicant the original owner? YES	NO If no, please answer <u>one</u>	of the following:
a. If the original rights to variety were owned by individual(s), is ((are) the original owner(s) all S. Nation	 al(a)2
YES	NO If no, give name of count	
	L. I I I I I I I I I I I I I I I I I I I	··· ·
b. If the original rights to variety were owned by a company(ies),	, is (are) the original owner(s) a U.S. bate NO If no, give name of countr	
. Additional explanation on ownership (Trace ownership from origin	nal breeder to current owner. Use the re	everse for extra space if needed):
The variety named in this application was developed by the Semi- otherwise stated, all rights to the varieties developed by Seminis operation of law. No rights to such invention, discovery or developed	Vegetable Seeds, Inc. are assigned to the	ne Company by agreement or by
Employee (Breeder): Bill Waycott		
Site Location: Arroyo Grande, CA		
The December 1 may 6 Commune, C.1		•
EASE NOTE:		·
nt variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:	
f the rights to the variety are owned by the original breeder, that penational of a country which affords similar protection to nationals of	erson must be a U.S. national, national of the U.S. for the same genus and speci-	of a UPOV member country, or es.
f the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a c genus and species.	red the original breeder(s), the company country which affords similar protection t	must be U.S. based, owned by to nationals of the U.S. for the same
f the applicant is an owner who is not the original owner, both the o	original owner and the applicant must m	neet one of the above criteria.
e original breeder/owner may be the individual or company who dir for definitions.	rected the final breeding. See Section 4	11(a)(2) of the Plant Variety Protection
ording to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, a frol number. The valid OMB control number for this information collection is 0561-0055. Iding the time for reviewing the instructions, searching existing data sources, gathering a	The time required to complete this information collec-	tion is estimated to average 0.1 hour per response

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer. Contraction of the production of the section of

23/07